**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Item No.1** | | Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 1385.20 | | | |
| | | 1\|2\|3\|4 **Total** | | | | | | **1385.20** | **137.80** | **190879.98** | |
| **Item No.2** | | Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | 5\|6\|7 | Cum | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 350.13 | | | |
| | | **Total** | | | | | | **350.13** | **3606.12** | **1262605.39** | |
| **Item No.3** | | Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-2020 | | | | | | | | | |
| | | **For Culverts** | | | | | | | | | |
| | | Srinivaspura Church Road Cross Road-1 | Cum | 2 | 5.50 | 0.60 | 0.50 | 3.30 | | | |
| | | Srinivaspura Church Road Cross Road-2 | Cum | 2 | 6.00 | 0.60 | 0.50 | 3.60 | | | |
| | | Cross Roads-3 | Cum | 2 | 5.30 | 0.60 | 0.50 | 3.18 | | | |
| | | Srinivaspura Sai baba Temple Main Road-2 | Cum | 2 | 6.30 | 0.60 | 0.50 | 3.78 | | | |
| | | Srinivaspura Sai baba Temple Main Road-3 | Cum | 2 | 5.80 | 0.60 | 0.50 | 3.48 | | | |
| | | | | | | | **TOTAL** | **17.34** | | | |
| | | | | | | | **Quantity Limited To** | **14.88** | **4871.76** | **72492.00** | |
| **Item No.4** | | Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-20 | | | | | | | | | |
| | | **For Culverts** | | | | | | | | | |
| | | Srinivaspura Church Road Cross Road-1 | Cum | 2 | 5.50 | 0.50 | 0.45 | 2.48 | | | |
| | | Srinivaspura Church Road Cross Road-2 | Cum | 2 | 6.00 | 0.50 | 0.45 | 2.70 | | | |
| | | Cross Roads-3 | Cum | 2 | 5.30 | 0.50 | 0.45 | 2.39 | | | |
| | | Srinivaspura Sai baba Temple Main Road-2 | Cum | 2 | 6.30 | 0.50 | 0.45 | 2.84 | | | |
| | | Srinivaspura Sai baba Temple Main Road-3 | Cum | 2 | 5.80 | 0.50 | 0.45 | 2.61 | | | |
| | | | | | | | **TOTAL** | **13.01** | | | |
| | | | | | | | **Quantity Limited To** | **11.16** | **5305.30** | **59207.00** | |

RUDRAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Contactor PMC Assistant Engineer Assistant Executive Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Item No.5** | | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | **Sqm** | | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** 8/9 | | | | | | 978.42 | | | |
| | | | | | | | | **Quantity limited to** | 958.12 | | |
| | | | | | | | | **Total** | **958.12** | **309.52** | **296557.302** |
| **Item No.6** | | Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Cum | | 10/11 | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 39.98 | | | |
| | | | | | | | | **Total** | **39.98** | **5627.54** | **224969.35** |
| **Item No.7** | | Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22.01.20 | | | | | | | | | |
| | | **For Culverts** | | | | | | | | | |
| | | Srinivaspura Church Road Cross Road-1 | Sqm | 2 | 5.50 | | 0.45 | 4.95 | | | |
| | | Srinivaspura Church Road Cross Road-2 | Sqm | 2 | 6.00 | | 0.45 | 5.40 | | | |
| | | Cross Roads-3 | Sqm | 2 | 5.30 | | 0.45 | 4.77 | | | |
| | | Srinivaspura Sai baba Temple Main Road-2 | Sqm | 2 | 6.30 | | 0.45 | 5.67 | | | |
| | | Srinivaspura Sai baba Temple Main Road-3 | Sqm | 2 | 5.80 | | 0.45 | 5.22 | | | |
| | | | | | | | | **TOTAL** | **26.01** | | |
| | | | | | | | | **Quantity Limited To** | **24.80** | **223.66** | **5547.00** |
| **Item No.8** | | Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01.20 | | | | | | | | | |
| | | **For RCC Drain Bottom** | | | | | | | | | |
| | | Srinivaspura Chruch Road 2nd Cross-1 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 57 | | Cum | 1 | 12.00 | 0.90 | 0.15 | 1.62 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 57 | | Cum | 1 | 12.00 | 0.90 | 0.15 | 1.62 | | | |
| | | | | | | | | | | | |
| | | 2nd Cross-2 | | | | | | | | | |
| | | LHS | | | | | | | | | |

15.48

Assistant Executive Engineer
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contactor

BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage | | Description of Item | Unit | No | Length | Breadth | Depth | Quantity | Rate in | Amount in | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| From | To | | | | (m) | (m) | (m) | | RS. | RS. | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 56.5 | | Cum | 1 | 11.50 | 0.90 | 0.15 | 1.55 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 56.5 | | Cum | 1 | 11.50 | 0.90 | 0.15 | 1.55 | | | |
| | | 2nd Cross-3 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 54.1 | | Cum | 1 | 9.10 | 0.90 | 0.15 | 1.23 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 45 | 54.1 | | Cum | 1 | 9.10 | 0.90 | 0.15 | 1.23 | | | |
| | | 2nd Cross | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 0.90 | 0.15 | 2.03 | | | |
| 30 | 41.3 | | Cum | 1 | 11.30 | 0.90 | 0.15 | 1.53 | | | |
| | | For Side Wall | | | | | | | | | |
| | | Srinivaspura Chruch Road 2nd Cross-1 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 45 | 57 | | Cum | 2 | 12.00 | 0.15 | 0.60 | 2.16 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 45 | 57 | | Cum | 2 | 12.00 | 0.15 | 0.60 | 2.16 | | | |
| | | | | | | | | | | | |
| | | 2nd Cross-2 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.60 | 2.70 | | | |
| 45 | 56.5 | | Cum | 2 | 11.50 | 0.15 | 0.65 | 2.24 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 45 | 56.5 | | Cum | 2 | 11.50 | 0.15 | 0.65 | 2.24 | | | |
| | | 2nd Cross-3 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 45 | 54.1 | | Cum | 2 | 9.10 | 0.15 | 0.65 | 1.77 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 30 | 45 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |

96.06

Assistant Executive Engineer
R.R. Nagar, Sub-division
KRIDL, BBMP, Bangalore
Contactor

BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 0**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45 | 54.1 | | Cum | 2 | 9.10 | 0.15 | 0.60 | 1.64 | | | |
| | | 2nd Cross | | | | | | | | | |
| 0 | 15 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 15 | 30 | | Cum | 2 | 15.00 | 0.15 | 0.65 | 2.93 | | | |
| 30 | 41.3 | | Cum | 2 | 11.30 | 0.15 | 0.65 | 2.20 | | | |
| | | **For Culverts** | | | | | | | | | |
| | | Srinivaspura Church Road Cross Road-1 | Cum | 1 | 5.50 | 1.20 | 0.23 | 1.52 | | | |
| | | Srinivaspura Church Road Cross Road-2 | Cum | 1 | 6.00 | 1.80 | 0.23 | 2.48 | | | |
| | | Cross Roads-3 | Cum | 1 | 5.30 | 1.20 | 0.23 | 1.46 | | | |
| | | Srinivaspura Sai baba Temple Main Road-2 | Cum | 1 | 6.30 | 1.80 | 0.23 | 2.61 | | | |
| | | Srinivaspura Sai baba Temple Main Road-3 | Cum | 1 | 5.80 | 1.80 | 0.23 | 2.40 | 20.17 | | |
| | | | | | | | **TOTAL** | **132.20** | | 131.65 | |
| | | | | | | | **Quantity Limited To** | **132.17** | **5998.54** | **792827.00** | 789708 |
| **Item No.9** | | :providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Tonne | 12 | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 8.61 | | | |
| | | | | | | | **Quantity Limited To** | **8.59** | **75223.96** | **646253** | |
| **Item No.10** | | Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-20 | | | | | | | | | |
| | | **For RCC Drain** | | | | | | | | | |
| | | Srinivaspura Chruch Road 2nd Cross-1 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 57 | | Sqm | 1 | 12.00 | 0.90 | | 10.80 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 57 | | Sqm | 1 | 12.00 | 0.90 | | 10.80 | | | |
| | | | | | | | | | | | |
| | | 2nd Cross-2 | | | | | | | | | |
| | | LHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 56.5 | | Sqm | 1 | 11.50 | 0.90 | | 10.35 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 56.5 | | Sqm | 1 | 11.50 | 0.90 | | 10.35 | | | |
| | | 2nd Cross-3 | | | | | | | | | |

204.30

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 54.1 | | Sqm | 1 | 9.10 | 0.90 | | 8.19 | | | |
| | | RHS | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 45 | 54.1 | | Sqm | 1 | 9.10 | 0.90 | | 8.19 | | | |
| | | 2nd Cross | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 0.90 | | 13.50 | | | |
| 30 | 41.3 | | Sqm | 1 | 11.30 | 0.90 | | 10.17 | 143.73 | | |
| | | | | | | | | | | | |
| | | Missing Cover Slab in Church Road | | | | | | | | | |
| | | | Sqm | 17 | 0.90 | 0.60 | | 9.18 | | | |
| | | | | | | | TOTAL | 348.03 | 2100.00 | 730863.00 | |

| | |
|---|---|
| **Item No.11** | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. and as per the directions of the Engineer-in-charge of the work |
| **Measurements Taken On;** | 22-01-20 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | For Cement Concrete Road | | | | | | | | | |
| | | Srinivaspura Chruch Road 2nd Cross-1 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 45 | 57 | | Cum | 1 | 12.00 | 5.30 | 0.10 | 6.36 | | | |
| | | | | | | | | | | | |
| | | 2nd Cross-2 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 5.55 | 0.10 | 8.33 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 5.55 | 0.10 | 8.33 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 5.55 | 0.10 | 8.33 | | | |
| 45 | 56.5 | | Cum | 1 | 11.50 | 5.55 | 0.10 | 6.38 | | | |
| | | 2nd Cross-3 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 45 | 54.1 | | Cum | 1 | 9.10 | 5.30 | 0.10 | 4.82 | | | |
| | | 2nd Cross | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 5.10 | 0.10 | 7.65 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 5.25 | 0.10 | 7.88 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 5.30 | 0.10 | 7.95 | | | |
| 45 | 60 | | Cum | 1 | 15.00 | 5.35 | 0.10 | 8.03 | | | |
| 60 | 75 | | Cum | 1 | 15.00 | 5.50 | 0.10 | 8.25 | | | |
| 75 | 90 | | Cum | 1 | 15.00 | 5.45 | 0.10 | 8.18 | | | |
| 90 | 105 | | Cum | 1 | 15.00 | 5.35 | 0.10 | 8.03 | | | |
| 105 | 117.7 | | Cum | 1 | 12.70 | 5.40 | 0.10 | 6.86 | | | |
| | | | | | | | | | | | |
| | | Cross | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 5.20 | 0.10 | 7.80 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 5.10 | 0.10 | 7.65 | | | |

168.50

Assistant Executive Engineer
R.R. Nagar, Sub-division
KRIDL, BBMP, Bangalore
Contactor

RUDRARASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24
Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 45 | | Cum | 1 | 15.00 | 5.00 | 0.10 | 7.50 | | | |
| 45 | 60 | | Cum | 1 | 15.00 | 5.10 | 0.10 | 7.65 | | | |
| 60 | 75 | | Cum | 1 | 15.00 | 5.15 | 0.10 | 7.73 | | | |
| 75 | 79.5 | | Cum | 1 | 4.50 | 5.05 | 0.10 | 2.27 | | | |
| | | | | | | | TOTAL | 193.65 | 5770.64 | 1117461.00 | |
| **Item No.12** | | Providing & fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing & technical specification complete as per specifications, and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-20 | | | | | | | | | |
| | | For CC Road | M | 20 | 5.00 | | | 100.00 | | | |
| | | | M | 20 | 5.00 | | | 100.00 | | | |
| | | | M | 25 | 5.00 | | | 125.00 | | | |
| | | | | | | | TOTAL | 325.00 | 126.14 | 40996.00 | |
| **Item No.13** | | Vaccum De- watering with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-20 | | | | | | | | | |
| | | For Cement Concrete Road | | | | | | | | | |
| | | Srinivaspura Chruch Road 2nd Cross-1 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 45 | 57 | | Sqm | 1 | 12.00 | 5.30 | | 63.60 | | | |
| | | | | | | | | | | | |
| | | 2nd Cross-2 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 5.55 | | 83.25 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 5.55 | | 83.25 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 5.55 | | 83.25 | | | |
| 45 | 56.5 | | Sqm | 1 | 11.50 | 5.55 | | 63.83 | | | |
| | | 2nd Cross-3 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 45 | 54.1 | | Sqm | 1 | 9.10 | 5.30 | | 48.23 | | | |
| | | 2nd Cross | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 5.10 | | 76.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 5.25 | | 78.75 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 5.30 | | 79.50 | | | |
| 45 | 60 | | Sqm | 1 | 15.00 | 5.35 | | 80.25 | | | |
| 60 | 75 | | Sqm | 1 | 15.00 | 5.50 | | 82.50 | | | |
| 75 | 90 | | Sqm | 1 | 15.00 | 5.45 | | 81.75 | | | |
| 90 | 105 | | Sqm | 1 | 15.00 | 5.35 | | 80.25 | | | |
| 105 | 117.7 | | Sqm | 1 | 12.70 | 5.40 | | 68.58 | | | |
| | | | | | | | | | | | |
| | | Cross | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 5.20 | | 78.00 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 5.10 | | 76.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 5.00 | | 75.00 | | | |
| 45 | 60 | | Sqm | 1 | 15.00 | 5.10 | | 76.50 | | | |
| 60 | 75 | | Sqm | 1 | 15.00 | 5.15 | | 77.25 | | | |
| 75 | 79.5 | | Sqm | 1 | 4.50 | 5.05 | | 22.73 | | | |
| | | | | | | | TOTAL | 1936.46 | 72.08 | 139580 | |

1936.46

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Executive Engineer
R.R. Nagar, Sub-division
KRIDL, BBMP, Bangalore
Contactor

Assistant Engineer

Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Item No.14** | | Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Cum | 1314 | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 652.39 | | | |
| | | | | | | | **Total** | **652.39** | **2001.28** | **1305605** | |
| **Item No.15** | | providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Sqm | 15 | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 1328.69 | | | |
| | | | | | | | **Total** | **1328.69** | **36.04** | **47885.81** | |
| **Item No.16** | | Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| | | | Cum | 16 | | | | | | | |
| | | **Vide Total executed Quantity from premeasuremet Page no.** | | | | | | 66.43 | | | |
| | | | | | | | **Total** | **66.43** | **6823.44** | **453310.12** | |
| **Item No.17** | | providing and applying tack coat on granular base such as WBM and WMM surfaces hot bitumen primed at 10 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. and as per the directions of the Engineer-in-charge of the work | | | | | | | | | |
| **Measurements Taken On;** | | 22-01-20 | | | | | | | | | |
| | | **For Asphat road** | **Sqm** | | | | | | | | |
| | | Srinivaspaura Temple Road Main Road-1 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 6.25 | | 93.75 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 6.10 | | 91.50 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 6.30 | | 94.50 | | | |
| 45 | 60 | | Sqm | 1 | 15.00 | 6.35 | | 95.25 | | | |
| 60 | 75 | | Sqm | 1 | 15.00 | 6.40 | | 96.00 | | | |
| 75 | 90 | | Sqm | 1 | 15.00 | 6.50 | | 97.50 | | | |
| 90 | 105 | | Sqm | 1 | 15.00 | 6.20 | | 93.00 | | | |
| 105 | 120 | | Sqm | 1 | 15.00 | 6.35 | | 95.25 | | | |
| 120 | 135 | | Sqm | 1 | 15.00 | 6.45 | | 96.75 | | | |
| 135 | 150 | | Sqm | 1 | 15.00 | 6.10 | | 91.50 | | | |
| 150 | 165 | | Sqm | 1 | 15.00 | 6.30 | | 94.50 | | | |
| 165 | 180 | | Sqm | 1 | 15.00 | 6.40 | | 96.00 | | | |
| 180 | 195 | | Sqm | 1 | 15.00 | 6.35 | | 95.25 | | | |
| 195 | 210 | | Sqm | 1 | 15.00 | 6.45 | | 96.75 | | | |
| 210 | 225 | | Sqm | 1 | 15.00 | 6.10 | | 91.50 | | | |
| 225 | 240 | | Sqm | 1 | 15.00 | 6.30 | | 94.50 | | | |
| 240 | 255 | | Sqm | 1 | 15.00 | 6.40 | | 96.00 | | | |
| 255 | 264.9 | | Sqm | 1 | 9.90 | 6.20 | | 61.38 | | | |
| | | | | | | | | | | | |
| | | Road-1 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 4.90 | | 73.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 4.75 | | 71.25 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 4.80 | | 72.00 | | | |
| 45 | 54.1 | | Sqm | 1 | 9.10 | 4.65 | | 42.32 | | | |
| | | Road-2 | | | | | | | | | |

1989.95

Assistant Executive Engineer
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contactor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 15 | | Sqm | 1 | 15.00 | 4.15 | | 62.25 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 4.20 | | 63.00 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 4.15 | | 62.25 | | | |
| 45 | 59.5 | | Sqm | 1 | 14.50 | 4.00 | | 58.00 | | | |
| | | Road-3 | | | | | | | | | |
| 0 | 15 | | Sqm | 1 | 15.00 | 3.30 | | 49.50 | | | |
| 15 | 30 | | Sqm | 1 | 15.00 | 3.35 | | 50.25 | | | |
| 30 | 45 | | Sqm | 1 | 15.00 | 3.00 | | 45.00 | | | |
| 45 | 54.5 | | Sqm | 1 | 9.50 | 3.25 | | 30.88 | | | |
| | | | | | | | TOTAL | 2351.07 | 24.84 | 58401.00 | |

| | |
|---|---|
| **Item No.18** | providing and laying **bituminous concrete** 40mm thick with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification and as per the directions of the Engineer-in-charge of the work |
| **Measurements Taken On** | 22-01-2020 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Srinivaspaura Temple Road Main Road-1 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 6.25 | 0.04 | 3.75 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 6.10 | 0.04 | 3.66 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 6.30 | 0.04 | 3.78 | | | |
| 45 | 60 | | Cum | 1 | 15.00 | 6.35 | 0.04 | 3.81 | | | |
| 60 | 75 | | Cum | 1 | 15.00 | 6.40 | 0.04 | 3.84 | | | |
| 75 | 90 | | Cum | 1 | 15.00 | 6.50 | 0.04 | 3.90 | | | |
| 90 | 105 | | Cum | 1 | 15.00 | 6.20 | 0.04 | 3.72 | | | |
| 105 | 120 | | Cum | 1 | 15.00 | 6.35 | 0.04 | 3.81 | | | |
| 120 | 135 | | Cum | 1 | 15.00 | 6.45 | 0.04 | 3.87 | | | |
| 135 | 150 | | Cum | 1 | 15.00 | 6.10 | 0.04 | 3.66 | | | |
| 150 | 165 | | Cum | 1 | 15.00 | 6.30 | 0.04 | 3.78 | | | |
| 165 | 180 | | Cum | 1 | 15.00 | 6.40 | 0.04 | 3.84 | | | |
| 180 | 195 | | Cum | 1 | 15.00 | 6.35 | 0.04 | 3.81 | | | |
| 195 | 210 | | Cum | 1 | 15.00 | 6.45 | 0.04 | 3.87 | | | |
| 210 | 225 | | Cum | 1 | 15.00 | 6.10 | 0.04 | 3.66 | | | |
| 225 | 240 | | Cum | 1 | 15.00 | 6.30 | 0.04 | 3.78 | | | |
| 240 | 255 | | Cum | 1 | 15.00 | 6.40 | 0.04 | 3.84 | | | |
| 255 | 264.9 | | Cum | 1 | 9.90 | 6.20 | 0.04 | 2.46 | | | |
| | | | | | | | | | | | |
| | | Road-1 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 4.90 | 0.04 | 2.94 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 4.75 | 0.04 | 2.85 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 4.80 | 0.04 | 2.88 | | | |
| 45 | 54.1 | | Cum | 1 | 9.10 | 4.65 | 0.04 | 1.69 | | | |
| | | Road-2 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 4.15 | 0.04 | 2.49 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 4.20 | 0.04 | 2.52 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 4.15 | 0.04 | 2.49 | | | |
| 45 | 59.5 | | Cum | 1 | 14.50 | 4.00 | 0.04 | 2.32 | | | |
| | | Road-3 | | | | | | | | | |
| 0 | 15 | | Cum | 1 | 15.00 | 3.30 | 0.04 | 1.98 | | | |
| 15 | 30 | | Cum | 1 | 15.00 | 3.35 | 0.04 | 2.01 | | | |
| 30 | 45 | | Cum | 1 | 15.00 | 3.00 | 0.04 | 1.80 | | | |
| 45 | 54.5 | | Cum | 1 | 9.50 | 3.25 | 0.04 | 1.24 | | | |
| | | | | | | | TOTAL | 94.04 | 8869.02 | 834067.00 | 79821.00 |

| | |
|---|---|
| **Item No.19** | Loading and Unloading of stone boulders by manual means complete as per specification and as per the directions of the Engineer-in-charge of the work |

90.00

PRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contactor PMC Assistant Engineer Assistant Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK: Improvements to Roads and Drain at Srinivaspura Village in ward No. 05**

**MEASUREMENT SHEET**

**FIRST AND FINAL BILL**

| Chainage From | Chainage To | Description of Item | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Rate in RS. | Amount in RS. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Measurements Taken On | | 22-01-2020 | | | | | | | | | |
| | | Qty. Vide Item No. 1 | | | | | | 1385.20 | | | |
| | | | | | | | TOTAL | 1385.20 | 60.42 | 83694.00 | |
| | | | | | | | | | Sub Total | 8363201.04 | |
| | | | | | | | | | Add 12% Applicable GST | 1003584.12 | |
| | | | | | | | | | Add 3% KRIDL Charges | 250896.00 | |
| | | | | | | | | | Add 1% Labour Cess | 83632.00 | |
| | | | | | | | | | Total Amount | 9701313 | |

22/1/2020

Assistant Executive Engineer
R.R. Nagar, Sub-division
KRIDL, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24
Assistant Executive Engineer